

Figure 1(a)

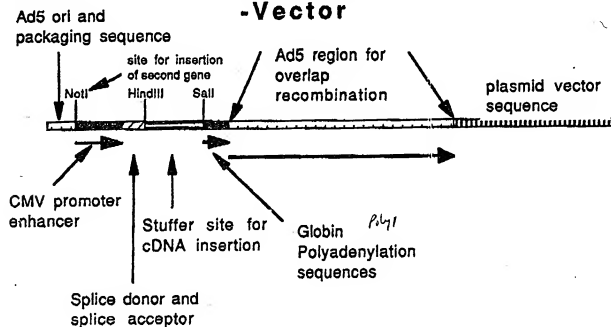
Figure 1**AdCMV-HS
-Vector**

Figure 1(b)

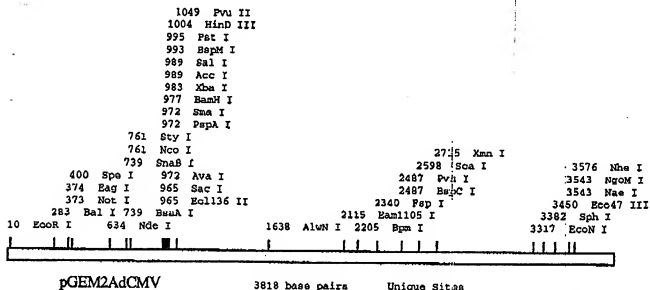


Figure 2

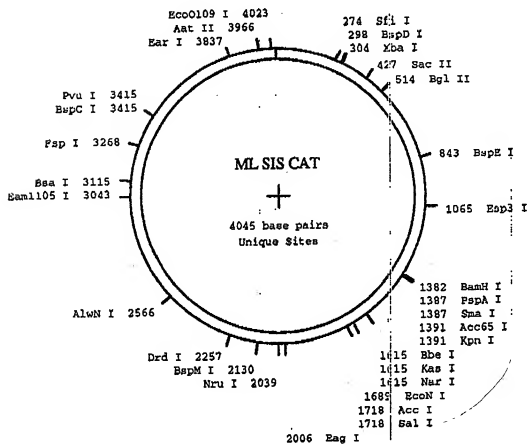


Figure 3

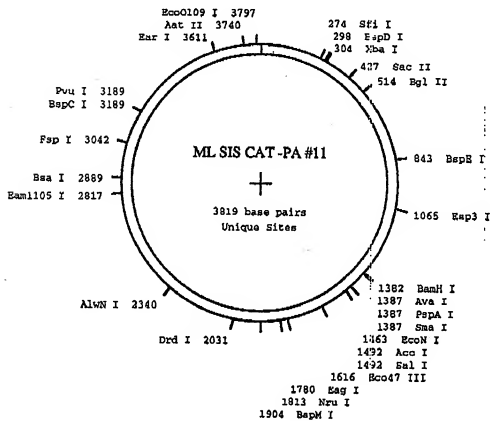


Figure 4

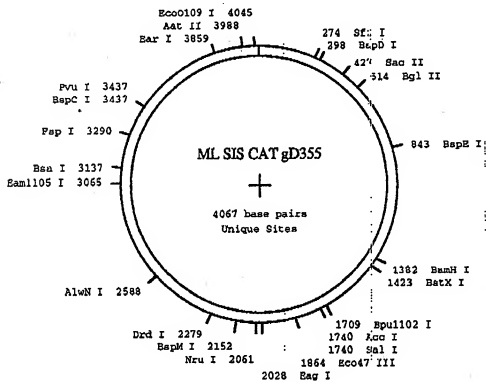


Figure 5

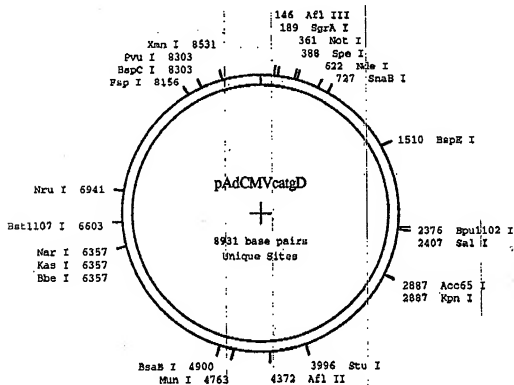


Figure 6

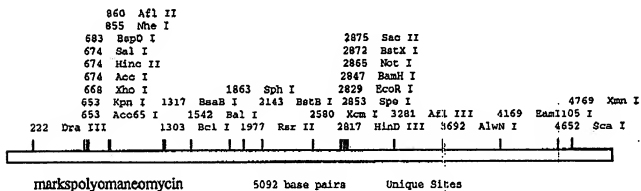


Figure 7

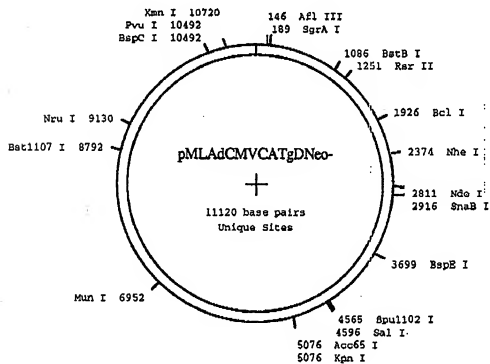


Figure 8

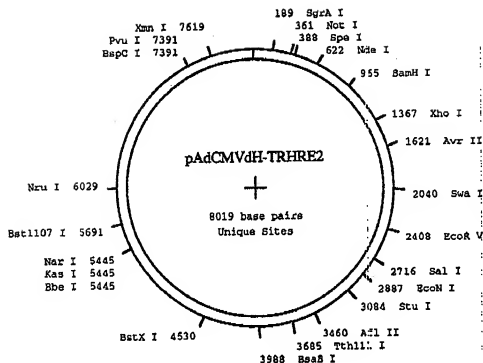


Figure 9

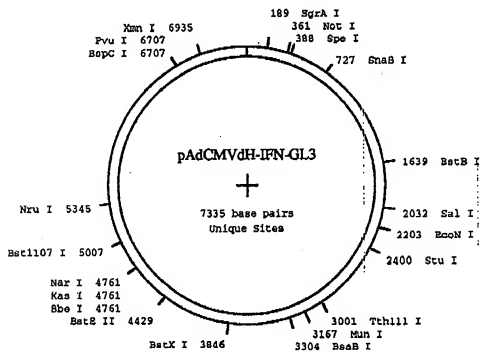


Figure 10

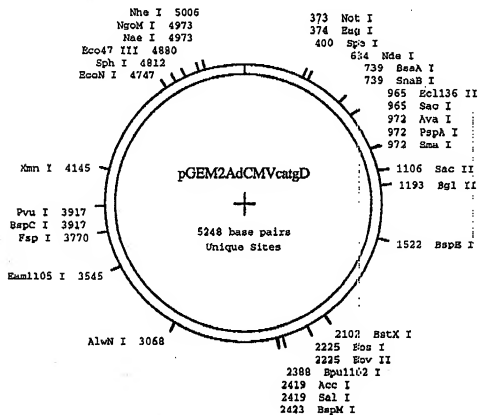


Figure 11

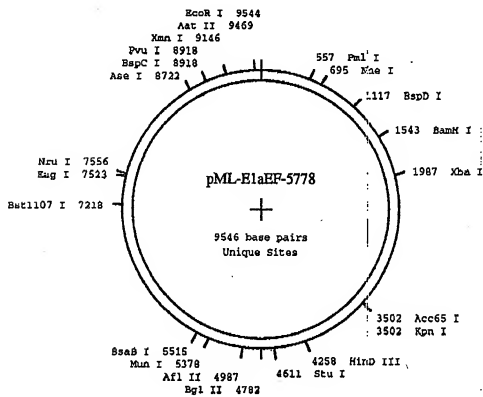


Figure 12

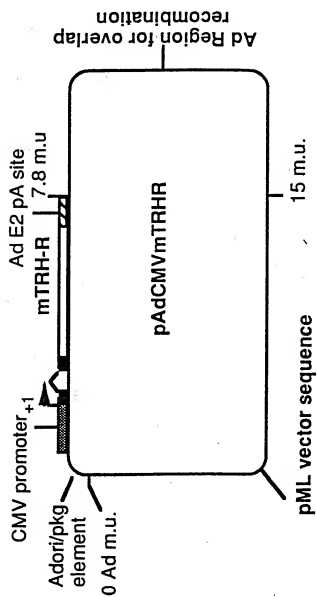


Figure 13

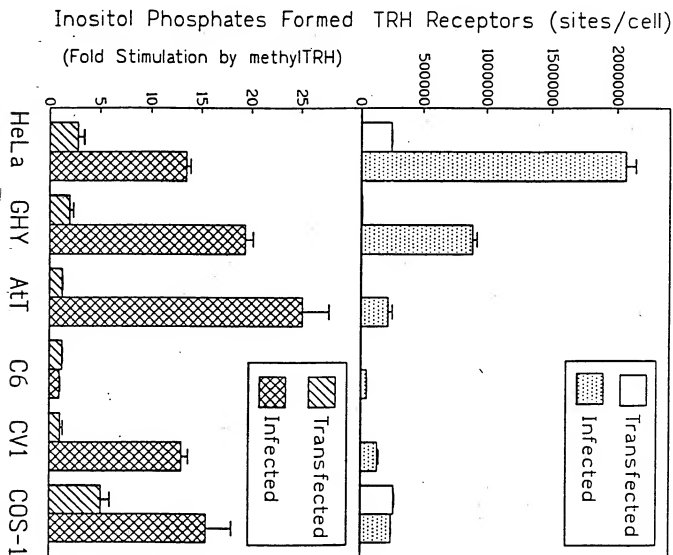


Figure 14

[³H]Inositol Phosphates
(% of Lipids)

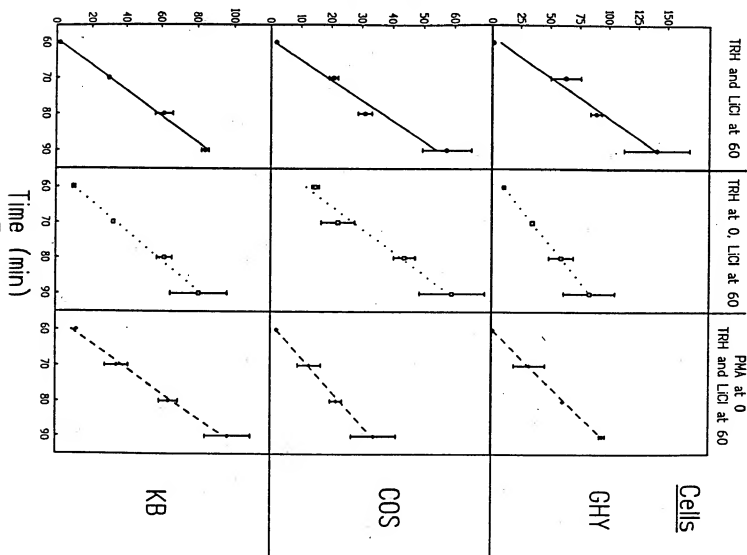


Figure 15

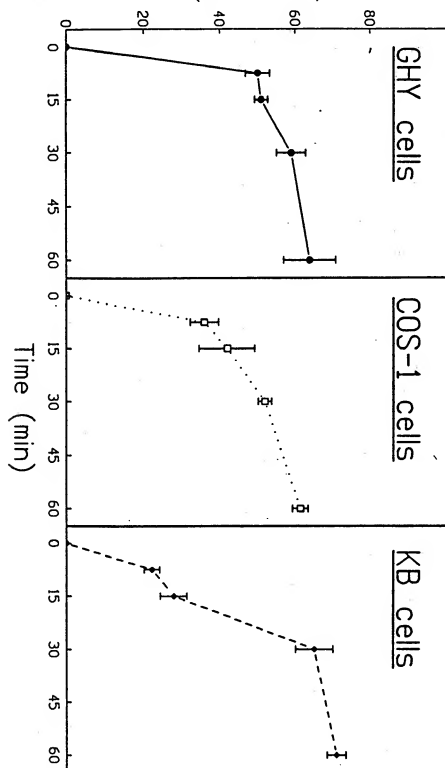
TRH Receptors Internalized
(% of Total)

Figure 16

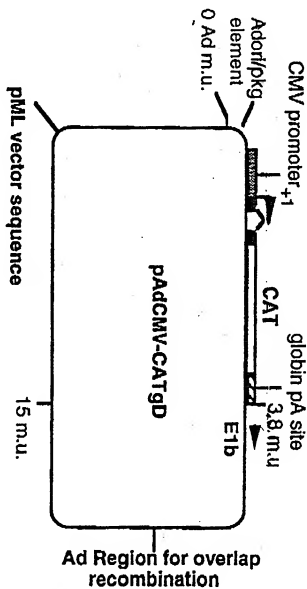


FIGURE 17

FETAL CARDIOCYTES

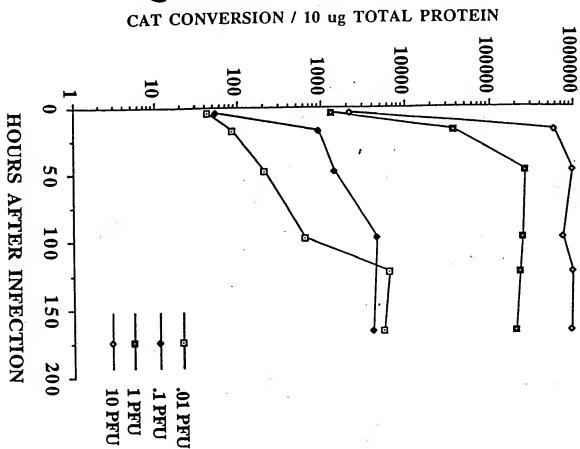


Figure 18(a)

ADULT CARDIOCYTES

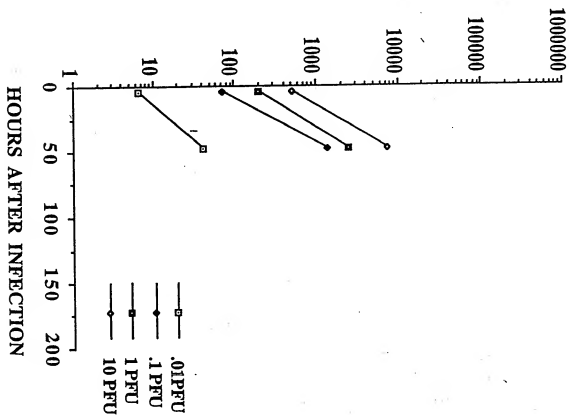
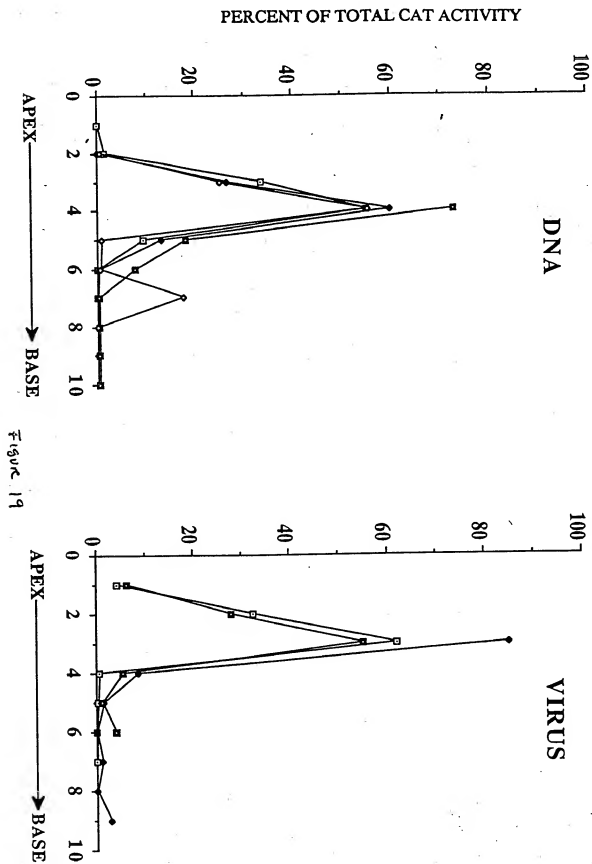


Figure 18(b)

DISTRIBUTION OF CAT ACTIVITY FOLLOWING A SINGLE INTRACARDIAC INJECTION



DOSE DEPENDENT CAT EXPRESSION IN THE LEFT VENTRICLE

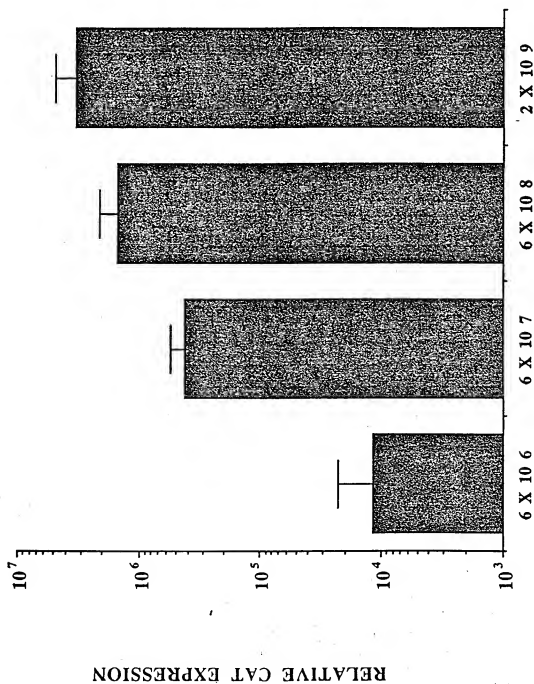


FIGURE 20 (a)

RELATIVE CAT CONVERSION

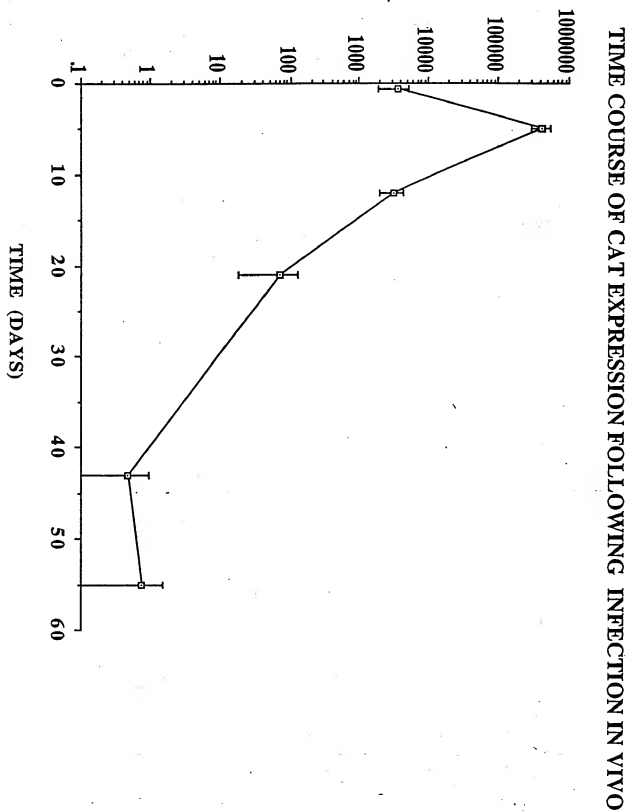


FIGURE 1a (b)

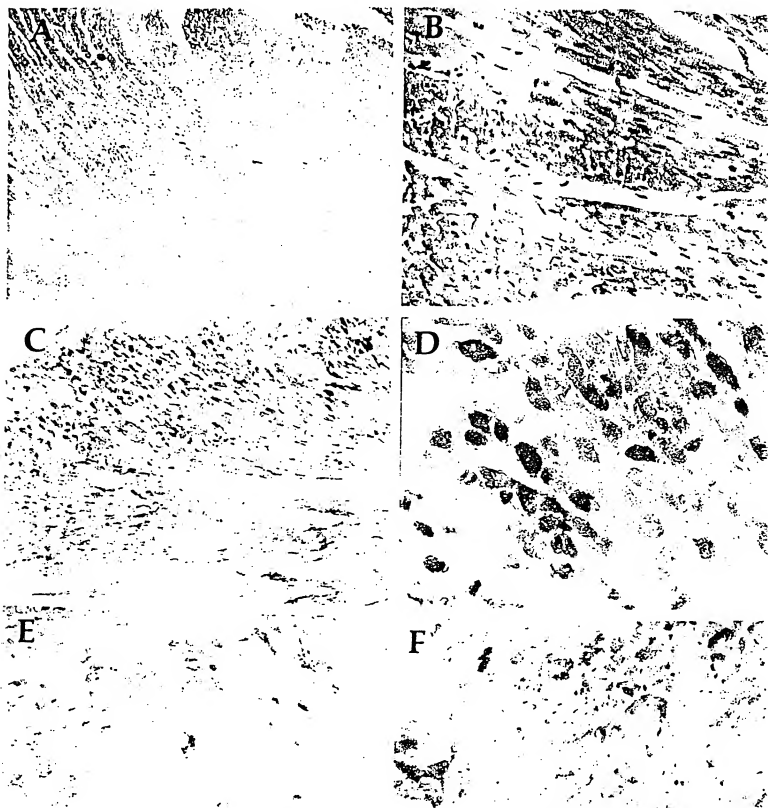


Figure 21

	1	10	20	30	40	50	60
1	CTCCATCATC	AATAATATAC	CTTATTTTCG	ATTCGAAGCCA	ATATGATTAAT	GAGCGGCTGT	60
61	AGTTTGTATG	GTGGCGCGGG	GCCTTGGCAAC	GGGGCGGGTG	ACGTATGTAAT	GTGCCGGAAG	120
121	TCTGATGTTC	CAAGTGTGGG	GGACACATG	TAAGGACAGG	ATCTGGCGAA	ACGTGACCTTT	180
181	TGTGTGTGGG	CCGGGTATCA	CAGCAATGTA	CAATTTTTCG	CGCGTTTAA	CGCGATGTTT	240
241	TAGTAAATTC	GGGTGTAAAC	GAGTAAATAT	TGCCCATTTT	CGCGGGGAAA	CTGAATTAAG	300
301	GGAATGAAA	TCTGAATTAAT	TTTCTGTATAC	TCAATGAGCGG	TAAATTTTGT	TTAGCGGCTT	360
361	GTGGCGCAAC	GTGGCACTTT	ATTATGACT	GGTATTAAT	AGTAATCAAT	TACGGGTTCT	420
421	CTAGTCTGTA	GGGATATAT	GGAGTCTGTA	GTACATAAC	TTACGTTAAA	TGCGCGGCT	480
481	GGGTGACCGG	CCACGACCC	CGCGCATCTG	ACGTCAATA	TTACGTTATG	TCCCATAGTT	540
541	AGCGGAATG	GGATCTTCCA	TTGAGCTGAA	TGGGTGGAGT	ATCTCGGTA	TAAGTCTGAA	600
601	CTGGCGATAC	ATGAGCTGTA	TGATCATGAA	TTGAGTGGGG	CTATTGAGT	CAAGTCTGAA	660
661	AAATGCGCGG	CTGGGCTGTA	TGCGGCTGTA	AGTGGCTGTA	GGAGTCTGTA	TAGTCTGAA	720
721	TAATCTGAGT	CTGGGCTGTA	TGCGGCTGTA	AGTGGCTGTA	GGAGTCTGTA	TAGTCTGAA	780
781	GGGTGCTGTA	CTGGGCTGTA	TGCGGCTGTA	AGTGGCTGTA	GGAGTCTGTA	TAGTCTGAA	840
841	GGGTGCTGTA	CTGGGCTGTA	TGCGGCTGTA	AGTGGCTGTA	GGAGTCTGTA	TAGTCTGAA	900
901	CTGGGCTGTA	CTGGGCTGTA	TGCGGCTGTA	AGTGGCTGTA	GGAGTCTGTA	TAGTCTGAA	960
961	CTGGGCTGTA	CTGGGCTGTA	TGCGGCTGTA	AGTGGCTGTA	GGAGTCTGTA	TAGTCTGAA	1020
1021	CTGGGCTGTA	CTGGGCTGTA	TGCGGCTGTA	AGTGGCTGTA	GGAGTCTGTA	TAGTCTGAA	1080
1081	CTGGGCTGTA	CTGGGCTGTA	TGCGGCTGTA	AGTGGCTGTA	GGAGTCTGTA	TAGTCTGAA	1140
1141	CTGGGCTGTA	CTGGGCTGTA	TGCGGCTGTA	AGTGGCTGTA	GGAGTCTGTA	TAGTCTGAA	1200
1201	CTGGGCTGTA	CTGGGCTGTA	TGCGGCTGTA	AGTGGCTGTA	GGAGTCTGTA	TAGTCTGAA	1260
1261	CTGGGCTGTA	CTGGGCTGTA	TGCGGCTGTA	AGTGGCTGTA	GGAGTCTGTA	TAGTCTGAA	1320
1321	CTGGGCTGTA	CTGGGCTGTA	TGCGGCTGTA	AGTGGCTGTA	GGAGTCTGTA	TAGTCTGAA	1380
1381	CTGGGCTGTA	CTGGGCTGTA	TGCGGCTGTA	AGTGGCTGTA	GGAGTCTGTA	TAGTCTGAA	1440
1441	CTGGGCTGTA	CTGGGCTGTA	TGCGGCTGTA	AGTGGCTGTA	GGAGTCTGTA	TAGTCTGAA	1500
1501	CTGGGCTGTA	CTGGGCTGTA	TGCGGCTGTA	AGTGGCTGTA	GGAGTCTGTA	TAGTCTGAA	1560
1561	CTGGGCTGTA	CTGGGCTGTA	TGCGGCTGTA	AGTGGCTGTA	GGAGTCTGTA	TAGTCTGAA	1620
1621	CTGGGCTGTA	CTGGGCTGTA	TGCGGCTGTA	AGTGGCTGTA	GGAGTCTGTA	TAGTCTGAA	1680
1681	CTGGGCTGTA	CTGGGCTGTA	TGCGGCTGTA	AGTGGCTGTA	GGAGTCTGTA	TAGTCTGAA	1740
1741	CTGGGCTGTA	CTGGGCTGTA	TGCGGCTGTA	AGTGGCTGTA	GGAGTCTGTA	TAGTCTGAA	1800
1801	CTGGGCTGTA	CTGGGCTGTA	TGCGGCTGTA	AGTGGCTGTA	GGAGTCTGTA	TAGTCTGAA	1860
1861	CTGGGCTGTA	CTGGGCTGTA	TGCGGCTGTA	AGTGGCTGTA	GGAGTCTGTA	TAGTCTGAA	1920
1921	CTGGGCTGTA	CTGGGCTGTA	TGCGGCTGTA	AGTGGCTGTA	GGAGTCTGTA	TAGTCTGAA	1980
1981	CTGGGCTGTA	CTGGGCTGTA	TGCGGCTGTA	AGTGGCTGTA	GGAGTCTGTA	TAGTCTGAA	2040
2041	CTGGGCTGTA	CTGGGCTGTA	TGCGGCTGTA	AGTGGCTGTA	GGAGTCTGTA	TAGTCTGAA	2100
2101	CTGGGCTGTA	CTGGGCTGTA	TGCGGCTGTA	AGTGGCTGTA	GGAGTCTGTA	TAGTCTGAA	2160
2161	CTGGGCTGTA	CTGGGCTGTA	TGCGGCTGTA	AGTGGCTGTA	GGAGTCTGTA	TAGTCTGAA	2220
2221	CTGGGCTGTA	CTGGGCTGTA	TGCGGCTGTA	AGTGGCTGTA	GGAGTCTGTA	TAGTCTGAA	2280
2281	CTGGGCTGTA	CTGGGCTGTA	TGCGGCTGTA	AGTGGCTGTA	GGAGTCTGTA	TAGTCTGAA	2340
2341	CTGGGCTGTA	CTGGGCTGTA	TGCGGCTGTA	AGTGGCTGTA	GGAGTCTGTA	TAGTCTGAA	2400
2401	CTGGGCTGTA	CTGGGCTGTA	TGCGGCTGTA	AGTGGCTGTA	GGAGTCTGTA	TAGTCTGAA	2460
2461	CTGGGCTGTA	CTGGGCTGTA	TGCGGCTGTA	AGTGGCTGTA	GGAGTCTGTA	TAGTCTGAA	2520
2521	CTGGGCTGTA	CTGGGCTGTA	TGCGGCTGTA	AGTGGCTGTA	GGAGTCTGTA	TAGTCTGAA	2580
2581	CTGGGCTGTA	CTGGGCTGTA	TGCGGCTGTA	AGTGGCTGTA	GGAGTCTGTA	TAGTCTGAA	2640
2641	CTGGGCTGTA	CTGGGCTGTA	TGCGGCTGTA	AGTGGCTGTA	GGAGTCTGTA	TAGTCTGAA	2700
2701	CTGGGCTGTA	CTGGGCTGTA	TGCGGCTGTA	AGTGGCTGTA	GGAGTCTGTA	TAGTCTGAA	2760
2761	CTGGGCTGTA	CTGGGCTGTA	TGCGGCTGTA	AGTGGCTGTA	GGAGTCTGTA	TAGTCTGAA	2820
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2881	CTGGGCTGTA	CTGGGCTGTA	TGCGGCTGTA	AGTGGCTGTA	GGAGTCTGTA	TAGTCTGAA	2940
2941	CTGGGCTGTA	CTGGGCTGTA	TGCGGCTGTA	AGTGGCTGTA	GGAGTCTGTA	TAGTCTGAA	3000
3001	CTGGGCTGTA	CTGGGCTGTA	TGCGGCTGTA	AGTGGCTGTA	GGAGTCTGTA	TAGTCTGAA	3060
3061	CTGGGCTGTA	CTGGGCTGTA	TGCGGCTGTA	AGTGGCTGTA	GGAGTCTGTA	TAGTCTGAA	3120
3121	CTGGGCTGTA	CTGGGCTGTA	TGCGGCTGTA	AGTGGCTGTA	GGAGTCTGTA	TAGTCTGAA	3180
3181	CTGGGCTGTA	CTGGGCTGTA	TGCGGCTGTA	AGTGGCTGTA	GGAGTCTGTA	TAGTCTGAA	3240
3241	CTGGGCTGTA	CTGGGCTGTA	TGCGGCTGTA	AGTGGCTGTA	GGAGTCTGTA	TAGTCTGAA	3300
3301	CTGGGCTGTA	CTGGGCTGTA	TGCGGCTGTA	AGTGGCTGTA	GGAGTCTGTA	TAGTCTGAA	3360
3361	CTGGGCTGTA	CTGGGCTGTA	TGCGGCTGTA	AGTGGCTGTA	GGAGTCTGTA	TAGTCTGAA	3420
3421	CTGGGCTGTA	CTGGGCTGTA	TGCGGCTGTA	AGTGGCTGTA	GGAGTCTGTA	TAGTCTGAA	3480
3481	CTGGGCTGTA	CTGGGCTGTA	TGCGGCTGTA	AGTGGCTGTA	GGAGTCTGTA	TAGTCTGAA	3540
3541	CTGGGCTGTA	CTGGGCTGTA	TGCGGCTGTA	AGTGGCTGTA	GGAGTCTGTA	TAGTCTGAA	3600
3601	CTGGGCTGTA	CTGGGCTGTA	TGCGGCTGTA	AGTGGCTGTA	GGAGTCTGTA	TAGTCTGAA	3660
3661	CTGGGCTGTA	CTGGGCTGTA	TGCGGCTGTA	AGTGGCTGTA	GGAGTCTGTA	TAGTCTGAA	3720
3721	CTGGGCTGTA	CTGGGCTGTA	TGCGGCTGTA	AGTGGCTGTA	GGAGTCTGTA	TAGTCTGAA	3780
3781	CTGGGCTGTA	CTGGGCTGTA	TGCGGCTGTA	AGTGGCTGTA	GGAGTCTGTA	TAGTCTGAA	3840

Fig. 22

3841 ACTGTATTTT TAGGTTGAGT ATGTTCCGAG
 3901 GAACACAGAG GACTGTAT CCGTGGCACT
 3961 ATGCGTGGAA GAACTTGGAG ACCGGCTGT
 4021 TAAATGATGG AATCGGCCCA CGAGCGGGGG
 4081 CGTCATAGTT GTGTTCCGAG ATGAGATCGT
 4141 GGGTCCGAGA CTGCGGTATA ATGTTTCGAT
 4201 TTTCGATTTT CGAGCGTTTC AGTTCAAGATG
 4261 AGAAAGAGGT TTCCGGGGTA GGGAGATCA
 4321 GATGCTTACC GAGCGGGTGT GCGCTGTAA
 4381 TAAAGAGAGT CGAGTGGCGT TACCTGTGAT
 4441 TGAATCGCAT GTTTTCCCTT ACCAAATCGG
 4501 GTTCTTGGAA GGAAGCAAA G TTTTTCAGCG
 4561 TGAAGGTTTG ACCAAACAGT TCGAGCGGGT
 4621 CTGAGTCCAG CATATCTCCT GTTTTCGCGG
 4681 TGGGTCGTCG TCGAGAACGG CTAAGGTCAT
 4741 CGTAGCTCTG GTACCGGTCA AGGAGTGGCG
 4801 GAGAAAGAGT CTGCTGGTGG TGAAGCGCTG
 4861 CATTGTAGAG ATGCTGTGAT ATCGTACGCG
 4921 GCGCTTGGAG GAGCGGGCGG AGAAGGAGCA
 4981 CGCGAGCAAT ACCCATTCGG GCGAGTAGCG
 5041 GCAATTCAGG AGCCAGAGTGA GCTCTGGCGG
 5101 CTCTTTTGAT GTCTTCTTAC CTCTGGTTTC
 5161 AAGCGTGTCT GTGTCCCGCT ATACAGAGCT
 5221 CAACCCAGTC AGCTCTTTCG GGTGGGCGCG
 5281 TGTCTTCTTT ATCATGCAAG TCGTAAGACA
 5341 CGAGAGCGCG TTTCGGTGA GCGAGAGCAT
 5401 CTCTGACCGC CTGCTGTGAA CTCTGTCAC
 5461 GGAAGCAAT ATGCGGCGCA TGGCGGCGCA
 5521 GACCGCGAGG TCGATGGGCT TCCCAATTAT
 5581 CCGCGCGGTT CAGGCGCATG TGTCCAGCGA
 5641 AGATGGCTCT GCGGGTAAAA AGGCGCGGTT
 5701 TGAAGAGCAT CACAAAATAT GACCTTCAGG
 5761 AAGATAGCAG GGTGTTTCCG GTGAAGAGCT
 5821 CTTACACGGA TACCTGTGCG CTCTTCTCCG
 5881 AGCTGTATAG TATCTCAAGT GCGGTAGGTT
 5941 ACCCGCGGTT CAGCGCGAGC GCTGCGGCTT
 6001 GGTGAAGCAC GACTTATCGC CACTTGGCAGC
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 6121 CAGCATATTT GTATCTCTCG CTCTGCTGAA
 6181 CTTCTTGATG GCGAAACAAA CCAACCGTGG
 6241 GATTACCGCG AGAAACAAAG CATCTCAAGA
 6301 CGCTCAGTGG AAGCAAAACT CAGCTTAAAGG
 6361 CTCTCACTAG ATCTCTTTAA ATTAAAAATG
 6421 GTAACTTGG TCTAGAGTT ACCAATGCTT
 6481 TCTATTGTTG TCATCGATA GTTCTGAGAT
 6541 GCGCTTACCA TCTCGGCCCA GTGCTGCAAT
 6601 AGATTATCTA GCAATAAACC AACGAGCGCG
 6661 TTATCTCGCG TCCATCCAGT GTATTAAATG
 6721 AGTTAAATAG TTGCGGAGCG TTGTTGCGAT
 6781 GTTGTGGATG GCTTCAATCA GCTCGGTTTC
 6841 CATGTTGTGC AAAAAGACGG TTAGCTCTCT
 6901 GCGCGGAGTG TTATCACTCA TGGTTATGGC
 6961 ATCTGTAAAG TGTCTTCTTG TCACTGGTGA
 7021 TATCGGCGCA CGGATGTTCT GTGCGCGCG
 7081 CAGAGCTTTA AAGCTGCTCA TCAATGGAAA
 7141 CTATCCGCTG TTGATGCCA GTTGGATGAA
 7201 ATCTTTTACT TTACAGCAGG TTCTCGGCTG
 7261 AAAAGGAAAT AGGCGGACAC GAAATGCTG
 7321 TTGAAGCAAT TATCAGGGTT ATTGTCTCAT
 7381 AAATAAACAA ATAGGGGTTT CCGGCACATT
 7441 AACCATATT ATCATGACAT TAACTATATA
 7501 TCAAGAA

1 10 20 30 40 50 60

CCAATATGCT CCGGGGATTC ATGTTTGTGA 3900
 TCGAAATAGT CTCTGTTAGC TTGAAGAGCT 3960
 GACCTCCGAG ATTTCTCATG CATCTGTGCA 4020
 CCGTGGCGAA CATATTTCGT GATCACTGTA 4080
 CATAGGCCAT TTTTCAAAAG CCGCGGGCGA 4140
 CCGGCGCAAG GCGTGAATTA CCGTCCAGAG 4200
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 AGCCACTGAT AACGAGATTA CAGAGCGGAG 6060
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 GATTTTGGCT ATGAGATAT CAATAAGGAT 6360
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 TGTCTGAGCG ATCGTGTGT CAGCGTGTG 6780
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 AATATGCGGT ATCAGAGGCG GCTTTCGCT 7500

7507